

Abstract of the Disclosure

An apparatus for monitoring polarization-mode dispersion and chromatic dispersion in optical networks in accordance with the present invention comprises; an optical distributor for distributing input optical signals, a first light receiver for photoelectrically converting the optical signals distributed by the distributor, a second light receiver for photoelectrically converting the optical signals to measure the average power of the optical signals distributed by the distributor, a filter for filtering output signals from the first light receiver, a power meter for measuring the frequency band of the optical signals filtered by the filter, an analog-to-digital (A/D) converter for converting the analog signals from the first and the second receivers into digital signals, a microprocessor for monitoring the polarization-mode dispersion and the chromatic dispersion of the optical signals by means of the digital signals from the A/D converter, and further a polarization scrambler in the optical signal sending-end.